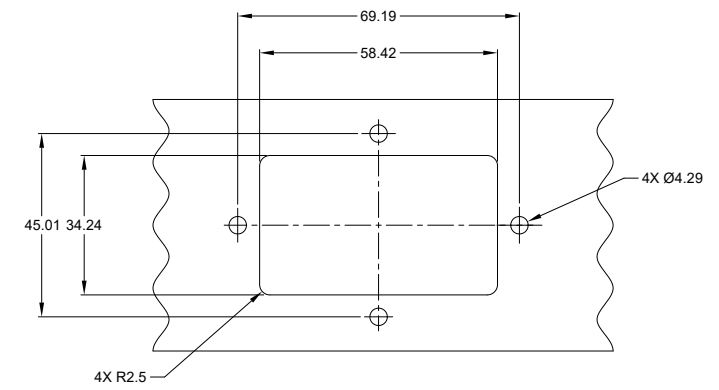
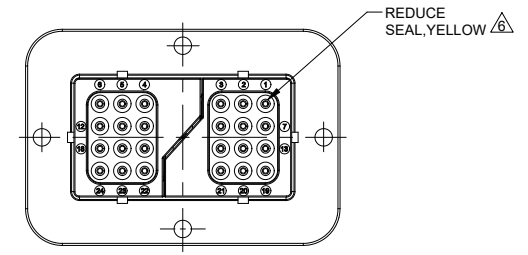


REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE NEW DRAWING	05/APR/21	SULLEN	TOMMY



NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL:
HOUSING: THERMOPLASTIC, BLACK
SEAL: SILICONE RUBBER
THREADED INSERT: STAINLESS STEEL
- MODIFICATIONS: FLANGE MOUNT;
REDUCE DIA. WIRE SEAL
- SPECIFICATIONS:
3.1 CURRENT RATING: 13 AMPS
3.2 OPERATING TEMPERATURE: -55°C TO +125°C
3.3 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC
3.4 INSULATION RESISTANCE: 1000 MEGOHMS MIN @ 25°C
3.5 MOISTURE RESISTANCE:
IP68 (IM OF WATER FOR A PERIOD OF 24 HOURS, MATED CONDITION);
IP69K(MATED CONDITION)
3.6 MATING CYCLE DURABILITY: 100 CYCLES
3.7 RoHS COMPLIANT
- MATING PART: ARC16-24SX* PLUG
(X = A,B,C,D KEYS ; * = ALL MODIFICATIONS)

SEE SHEET 2 FOR OTHER KEY ARRANGEMENTS

CONTACT SIZE AND REAR SEAL WIRE RANGE:

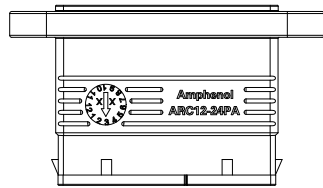
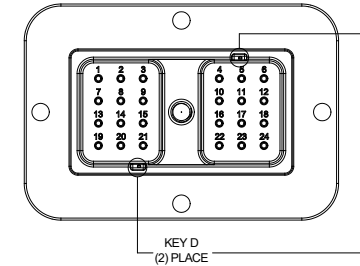
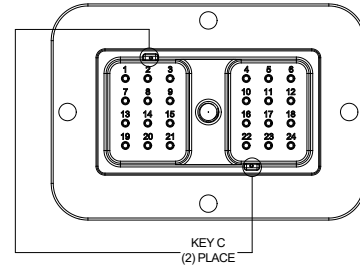
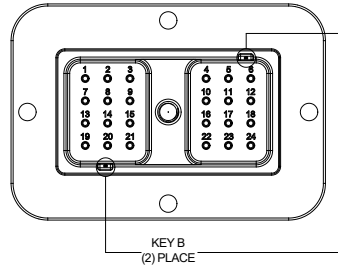
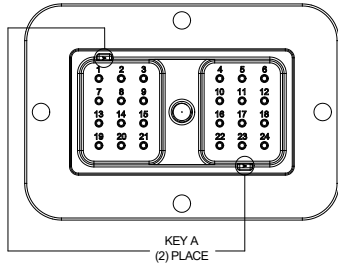
CONTACT SIZE	MIN. INSUL O.D.	MAX. INSUL O.D.	TYPICAL WIRE RANGE
16	1.35 mm (.053 in)	3.05 mm (.120 in)	14 - 20 AWG (2.0 - 0.5 mm ²)

- RECEPTACLE IS SUPPLIED WITH DUST CAP(NOT SHOWN).
- RECOMMENDED SCREW: 8-32 [M4]
TORQUE: 20 - 25 IN-LB [2.26 - 2.82 Nm]
- ALL DIMENSIONS ARE FOR REFERENCE USE ONLY

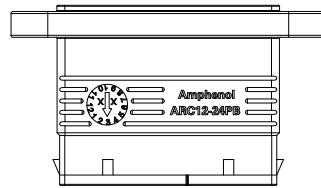
SEE SHEET 2		DESCRIPTION		ITEM
QUANTITY	PART NUMBER	MATERIALS LIST		
<p>UNLESS OTHERWISE SPECIFIED 1) All dimensions are in metric(mm). 2) Tolerances are as follows: 1 PL DEC ±0.30 2 PL DEC ±0.15 3 PL DEC ±0.08 3) Note reference = </p>				
SIGNATURES		DATE		
DRAWN: SULLEN,ZHANG		05/APR/21		
CHECKED: ORION,LI		06/APR/21		
ENGINEER:				
APPROVAL: TOMMY,XIE		07/APR/21		
MATERIAL SPECIFICATIONS:		CUSTOMER:		
PROCESS SPECIFICATIONS:		THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS.		
NEXT ASSY:		SCALE: NONE		
		SIZE	TYPE	DWG NO.
		B C-	ARC12-24PXR	A1
		SINE SYSTEMS - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036		REVISION
		24 POS, RECEPTACLE, PIN,ARC SERIES, KEYED, REDUCE SEAL, BLACK		
		SHEET 1 OF 2		

TITLE: 24 POS, RECEPTACLE, PIN,ARC SERIES,KEYED, REDUCE SEAL, BLACK
DWG NO.: ARC12-24PXR
REV: A1
SH: 1
OF: 2

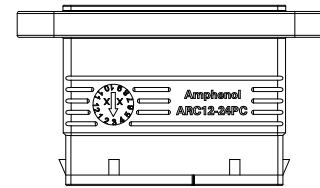
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASE NEW DRAWING	05/APR/21	SULLEN	TOMMY



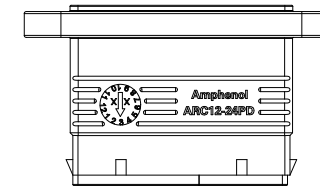
ARC12-24PXR VARIANTS	
PART NUMBER	REF
ARC12-24PAR	DRC12-24PAE



ARC12-24PXR VARIANTS	
PART NUMBER	REF
ARC12-24PBR	DRC12-24PBE



ARC12-24PXR VARIANTS	
PART NUMBER	REF
ARC12-24PCR	DRC12-24PCE



ARC12-24PXR VARIANTS	
PART NUMBER	REF
ARC12-24PDR	DRC12-24PDE

TITLE: 24 POS, RECEPTACLE, PIN,ARC SERIES,KEYED, REDUCE SEAL,BLACK
DWG NO: ARC12-24PXR
REV: A1
SH: 2
OF: 2

ARC12-24PXR		DESCRIPTION		ITEM
QUANTITY	PART NUMBER	MATERIALS LIST		
<p>UNLESS OTHERWISE SPECIFIED</p> <p>1) All dimensions are in metric(mm).</p> <p>2) Tolerances are as follows:</p> <p>1 PL DEC ±0.30 Fractions ±1/64</p> <p>2 PL DEC ±0.15 Angle ±1°</p> <p>3) Note reference = </p>				
SIGNATURES		DATE		
DRAWN: SULENZHANG		05/APR/21		
CHECKED: ORIONLI		06/APR/21		
ENGINEER:				
APPROVAL: TOMMY.XIE		07/APR/21		
MATERIAL SPECIFICATIONS:		CUSTOMER:		
PROCESS SPECIFICATIONS:		THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS.		
NEXT ASSY:				
		<p>Amphenol</p> <p>Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036</p>		
		<p>24 POS, RECEPTACLE, PIN,ARC SERIES, KEYED, REDUCE SEAL,BLACK</p>		
SIZE	TYPE	DWG NO:	REVISION	
B C-		ARC12-24PXR	A1	
SCALE:	NONE	SHEET 2 OF 2		

A Series™ - Contact Size 16 Options (Works with: AT, ATV, AHD-9, ARC, DuraMate and PanelMate Series)

Machined Contacts, Sockets & Pins				
Part Number	Description	Size	AWG	Type
AT60-215-1631	Male Contact - Pin, Gold-plated	16	14	Machined
AT62-209-1631	Female Contact - Socket, Gold-plated	16	14	Machined
AT60-215-16141	Male Contact - Pin, Nickel-plated	16	14	Machined
AT62-209-16141	Female Contact - Socket, Nickel-plated	16	14	Machined
AT60-202-1631	Male Contact - Pin, Gold-plated	16	16-20	Machined
AT62-201-1631	Female Contact - Socket, Gold-plated	16	16-20	Machined
AT60-202-16141	Male Contact - Pin, Nickel-plated	16	16-20	Machined
AT62-201-16141	Female Contact - Socket, Nickel-plated	16	16-20	Machined
AT60-202-1631-22	Male Contact - Pin, Gold-plated	16	22-24	Machined
AT62-201-1631-22	Female Contact - Socket, Gold-plated	16	22-24	Machined
AT60-202-16141-22	Male Contact - Pin, Nickel-plated	16	22-24	Machined
AT62-201-16141-22	Female Contact - Socket, Nickel-plated	16	22-24	Machined

Tooling - Machined Contacts	
Part Number	Description
AUTK-16	Hand Crimp Tool, Size 16
AUTK-100	Universal Heavy Duty Contact Crimping Tool Kit, Size 12/16/20
CA-5D12	Universal Hand Crimp Tool, Size 12/16/20
CA-5E12	Pneumatic Crimp Tool, Size 12/16/20

Contact Removal Tools (For both Machined or Stamped & Formed Contacts)	
Part Number	Description
ATRT-100	Contact and Wedgelock Extraction Tool
AT11-310-1605	Contact Removal Tool, Plastic, Size 16

Sealing Plugs (For both Machined or Stamped & Formed Contacts)	
Part Number	Description
A114017	Sealing Plug, Size 16, White
A114017-SR	Sealing Plug, Size 16, SR01 Series, Black
AT13-217-1605	Locking Sealing Plug, Size 16, Grey
AT13-217-1605-SR	Locking Sealing Plug, Size 16, SR01 Series, Red

Stamped & Formed Contacts, Sockets & Pins				
Part Number	Description	Size	AWG	Type
AT60-14-0122	Male Contact - Pin, Nickel-plated	16	14-18	Stamped & Formed
AT62-14-0122	Female Contact - Socket, Nickel-plated	16	14-18	Stamped & Formed
AT60-14-0144	Male Contact - Pin, Gold-plated	16	14-18	Stamped & Formed
AT62-14-0144	Female Contact - Socket, Gold-plated	16	14-18	Stamped & Formed
AT60-16-0122	Male Contact - Pin, Nickel-plated	16	16-18	Stamped & Formed
AT62-16-0122	Female Contact - Socket, Nickel-plated	16	16-18	Stamped & Formed
AT60-16-0144	Male Contact - Pin, Gold-plated	16	16-18	Stamped & Formed
AT62-16-0144	Female Contact - Socket, Gold-plated	16	16-18	Stamped & Formed
AT60-16-0622	Male Contact - Pin, Nickel-plated	16	16-20	Stamped & Formed
AT62-16-0622	Female Contact - Socket, Nickel-plated	16	16-20	Stamped & Formed
AT60-16-0644	Male Contact - Pin, Gold-plated	16	16-20	Stamped & Formed
AT62-16-0644	Female Contact - Socket, Gold-plated	16	16-20	Stamped & Formed
AT60-16-0677	Male Contact - Pin, Tin-plated	16	16-20	Stamped & Formed
AT62-16-0677	Female Contact - Socket, Tin-plated	16	16-20	Stamped & Formed
AT60-16-0822	Male Contact - Pin, Nickel-plated	16	20-22	Stamped & Formed
AT62-16-0822	Female Contact - Socket, Nickel-plated	16	20-22	Stamped & Formed
AT60-16-0844	Male Contact - Pin, Gold-plated	16	20-22	Stamped & Formed
AT62-16-0844	Female Contact - Socket, Gold-plated	16	20-22	Stamped & Formed

Tooling - Stamped & Formed Contacts	
MFX-3950	Crimp Die - Size 16, 18-20AWG
MFX-3953	Crimp Die - Size 16, 16-18AWG
MFX-3975	Crimp Die - Size 16, 14-16AWG
MFX-3990	Crimp Die - Size 16, 20-22AWG
ATT-16-00	Hand Crimp Tool - Size 16, 14-16AWG
ATT-16-01	Hand Crimp Tool - Size 16, 18-20AWG
ATT-1612-03	Hand Crimp Tool - Size 16, 20-22AWG